Europäisches Patentamt
European Patent Office

EP 0 721 178 A3

Office européen des brevets

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 09.12.1998 Bulletin 1998/50

(51) Int. Cl.⁶: G10K 11/178

(11)

(43) Date of publication A2: 10.07.1996 Bulletin 1996/28

(21) Application number: 96300078.1

(22) Date of filing: 04.01.1996

(84) Designated Contracting States: DE FR GB IT NL SE

(30) Priority: 05.01.1995 US 368920

(71) Applicant: DIGISONIX, Inc.
Middleton, Wisconsin 53562-2543 (US)

(72) Inventors:

Eriksson, Larry J.
 Madison, Wisconsin 53714 (US)

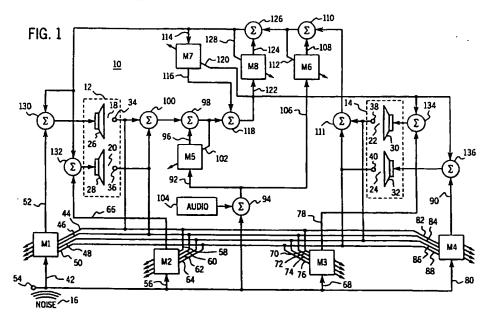
Bremlgan, Cary D.
 Madison, Wisconsin 53714 (US)

(74) Representative:
Burke, Steven David et al
R.G.C. Jenkins & Co.
26 Caxton Street
London SW1H 0RJ (GB)

(54) Multi-channel communication system

(57) A multi-channel communication system is provided. In an active acoustic attenuation implementation, noise, including cross-coupled noise between channels and locations, designated audio signals, and echoes,

are canceled, but not speech from another location. A particularly desirable vehicle application is provided.



EP 0 721 178 A3



EUROPEAN SEARCH REPORT

Application Number EP 96 30 0078

		ERED TO BE RELEVANT	1 -		
ategory	Citation of document with i of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)	
(* abstract *	IKSSON LARRY J ET AL)	27 1-3,9, 10,16, 17,20-22	G10K11/178	
	* figure * * column 1, line 27 * column 2, line 46 * claims 1,2,4,13,2	7 - line 37 * 5 - line 49 * 24,25 *			
Y	US 5 216 722 A (POF	OOVICH)	1-3,9, 10,16, 17,20-22		
	* abstract * * figures 8,9 * * claim 1 *				
- 1	EP 0 560 364 A (HONDA MOTOR CO LTD) * page 7, line 40 - line 44 * * page 24, line 36 - line 40 * * figure 32 *		13,18	TECHNICAL CELOS	
4	US 5 245 664 A (KIN	OSHITE AKIO ET AL)		TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
D,A	US 5 216 721 A (MEL	TON) 		G10K	
	The present search report has b	cen drawn up for all claims			
	Place of search	Date of completion of the search	1	Examples	
	THE HAGUE	20 March 1998	Ph.	de Heering	
X : particu Y : particu docum	EGORY OF CITED DOCUMENTS Itarly relevant if taken alone ularly relevant if combined with another tent of the same category	L ; document cited for	underlying the invi ument, but publishe the application r other reasons	ention d on, or	
A : technological background O : non-written disclosure P : intermediate document			& : member of the same patent family, corresponding document		

EP.) FURM 1503 03 82 (P04C01)



Application Number

EP 96 30 0078

CLAIMS INCURRING FEES				
The present European patent application comprised at the time of filing more than ten claims.				
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):				
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.				
LACK OF UNITY OF INVENTION				
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:				
see sheet B				
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.				
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:				
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: 1-23, 27				



LACK OF UNITY OF INVENTION SHEET B

Application Number EP 96 30 0078

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-23,27

Active acoustic noise cancelling communication system, notably for vehicle.

2. Claims: 24-26

An occupant restraint system, with a mounted microphone.